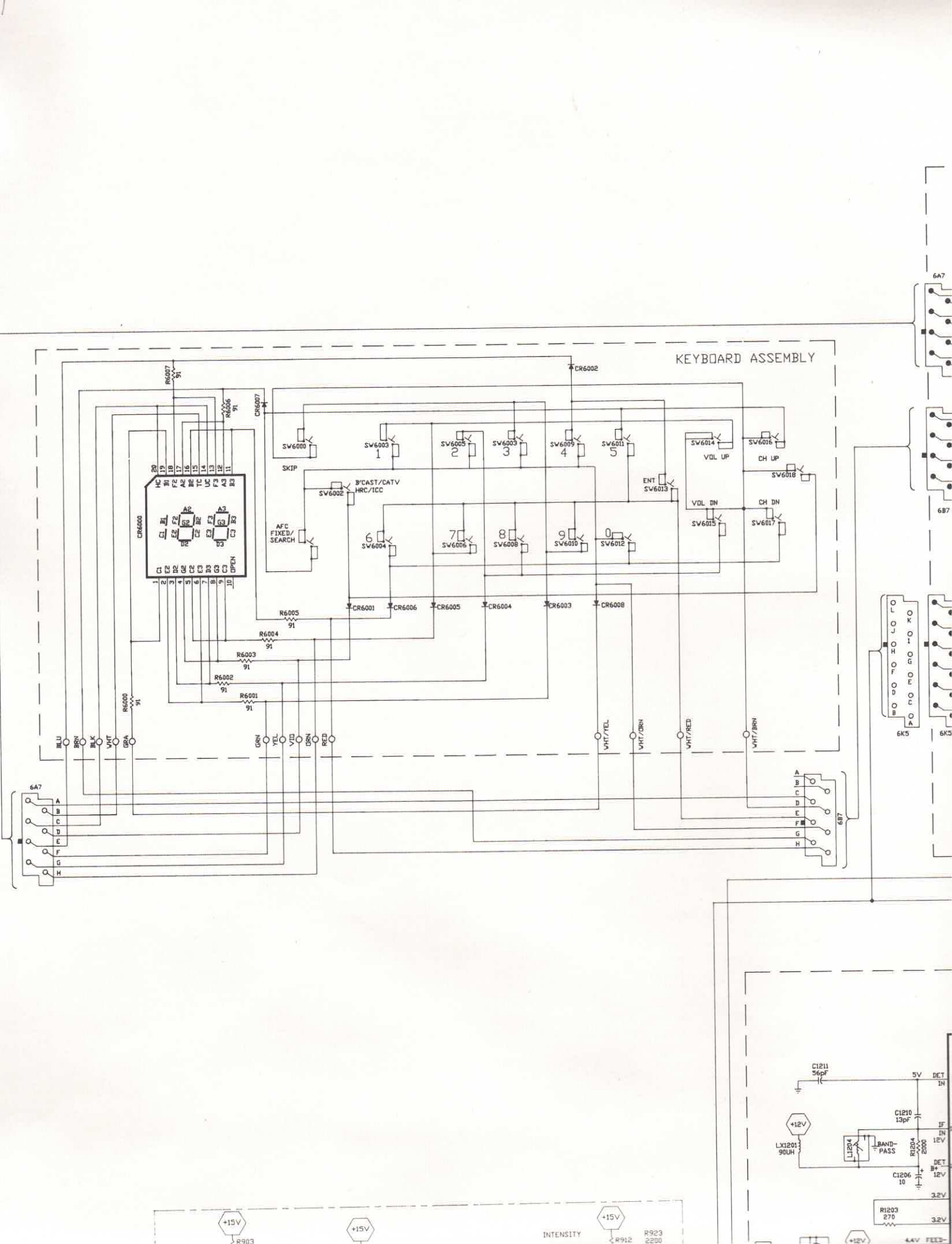
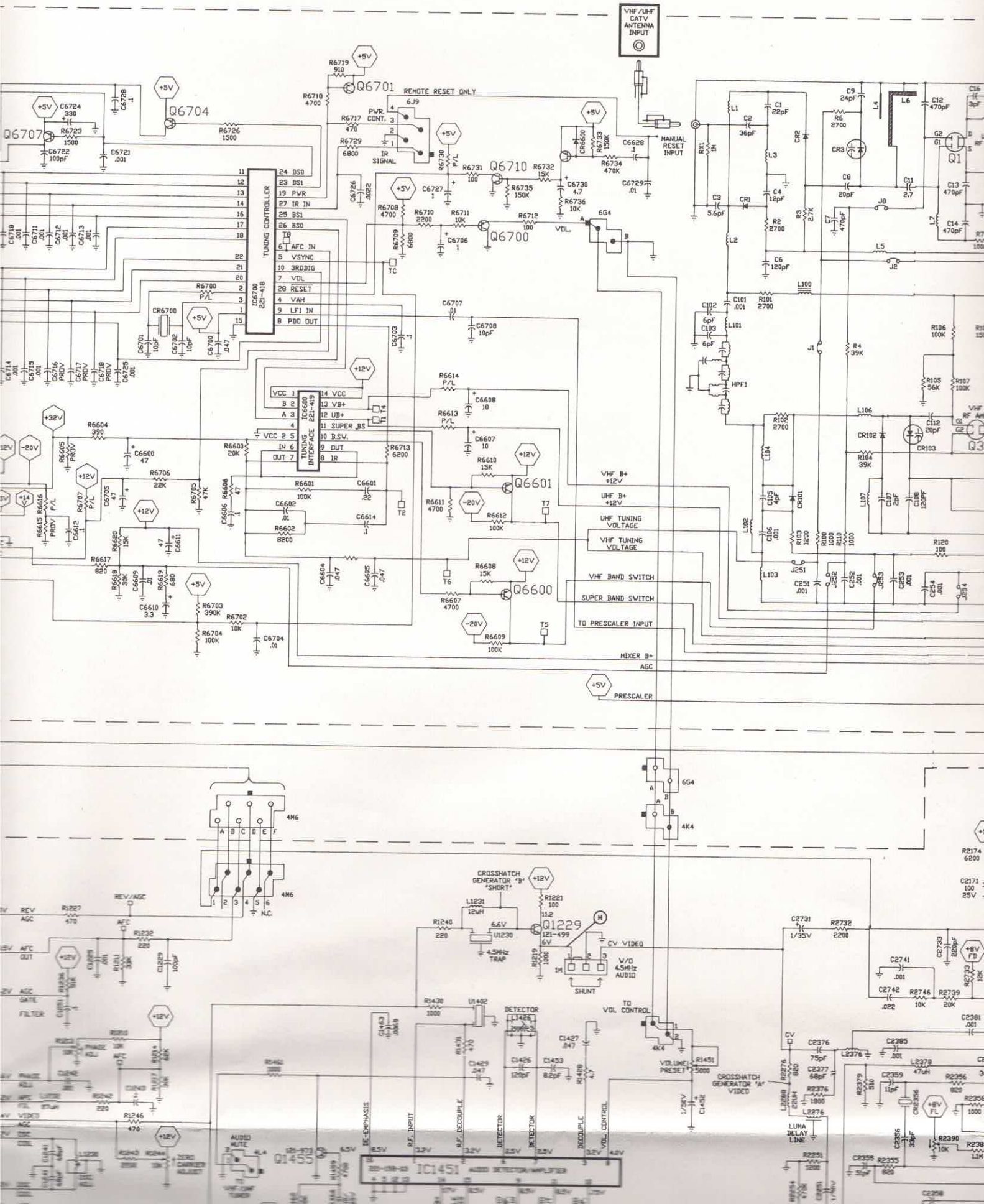
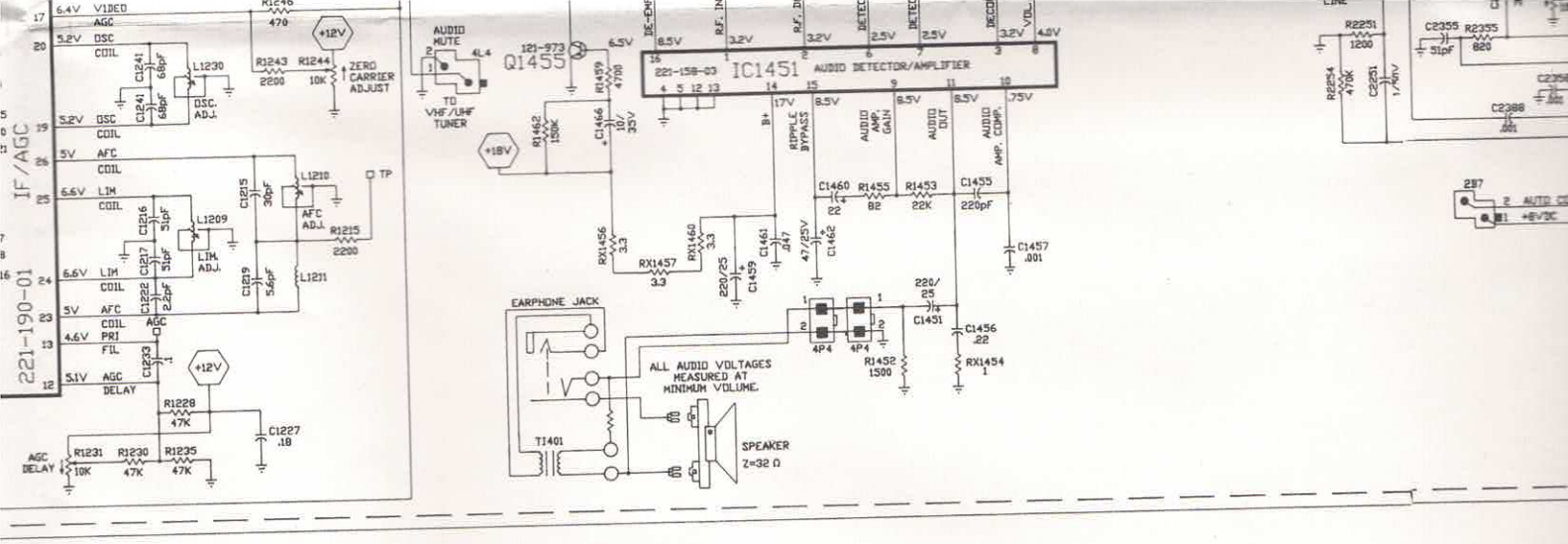
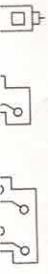
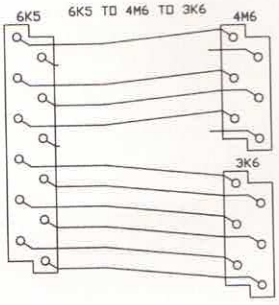
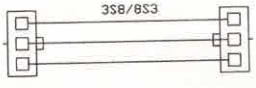

KEYBOARD ASSEMBLY
CR6002
R6007 91
R6006 91
CR6007
SW6000
SKIP
SW6003 1
SW6005 2
SW6003 3
SW6009 4
SW6011 5
SW6014
VOL UP
SW6016
CH UP
SW6018
ENT SW6013
SW6002
B'CAST/CATV HRC/ICC
VOL DN
SW6015
CH DN
SW6017
AFC FIXED/ SEARCH
6 SW6004
7 SW6006
8 SW6008
9 SW6010
0 SW6012
CR6600
OPEN
R6005 91
R6004 91
R6003 91
R6002 91
R6001 91
R6000 1K
CR6001
CR6006
CR6005
CR6004
CR6003
CR6008
BLU
BRN
BLK
VHT
GRA
GRN
YEL
VIO
ORN
RED
VHT/YEL
VHT/ORN
VHT/RED
VHT/BRN
6A7
6B7
6K5
C1211 36pF
5V
DET IN
C1210 13pF
IF IN
+12V
LX1201 90UH
L1204
BAND-PASS
R1204 2000
12V
DET B+
C1206 10
3.2V
R1203 270
+15V
R903
R912
INTENSITY
R923 2200

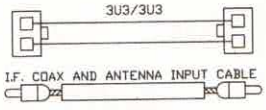

VHF/UHF CATV ANTENNA INPUT
MANUAL RESET INPUT
REMOTE RESET ONLY
TUNING CONTROLLER
IC6700 221-418
TUNING INTERFACE
IC6600 221-419
VHF B+ +12V
UHF B+ +12V
UHF TUNING VOLTAGE
VHF TUNING VOLTAGE
VHF BAND SWITCH
SUPER BAND SWITCH
TO PRESCALER INPUT
MIXER B+
AGC
PRESCALER
CROSSHATCH GENERATOR "B" "SHORT"
CROSSHATCH GENERATOR "A" VIDEO
TO VOL CONTROL
V/O 4.5MHz AUDIO
SHUNT
4.5MHz TRAP
DETECTOR
VOLUME PRESET
LUMA DELAY LINE
AUDIO MUTE
IC1451 AUDIO DETECTOR/AMPLIFIER
DE-EMPHASIS
AUDIO OUT
VOL CONTROL

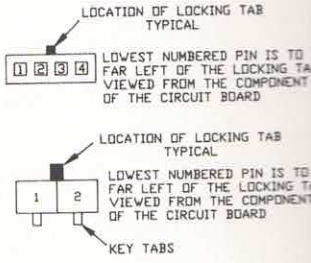

IF/AGC
221-190-01
6.4V VIDEO
AGC
5.2V OSC COIL
L1230
OSC. ADJ.
ZERO CARRIER ADJUST
+12V
5V AFC COIL
6.6V LIM COIL
L1210
TP
AFC ADJ.
L1209
LIM. ADJ.
L1211
4.6V PRI FIL
5.1V AGC DELAY
R1228 47K
C1227 .18
R1231 10K
R1230 47K
R1235 47K
AUDIO MUTE
TO VHF/UHF TUNER
+18V
Q1455
IC1451 AUDIO DETECTOR/AMPLIFIER
221-158-03
RIPPLE BYPASS
AUDIO AMP. GAIN
AUDIO OUT
AUDIO AMP. COMP.
C1460 R1455 R1453 C1455
C1457 .001
EARPHONE JACK
4P4
R1452 1500
C1456 .22
RX1454 1
ALL AUDIO VOLTAGES MEASURED AT MINIMUM VOLUME
T1401
SPEAKER Z=32 Ω

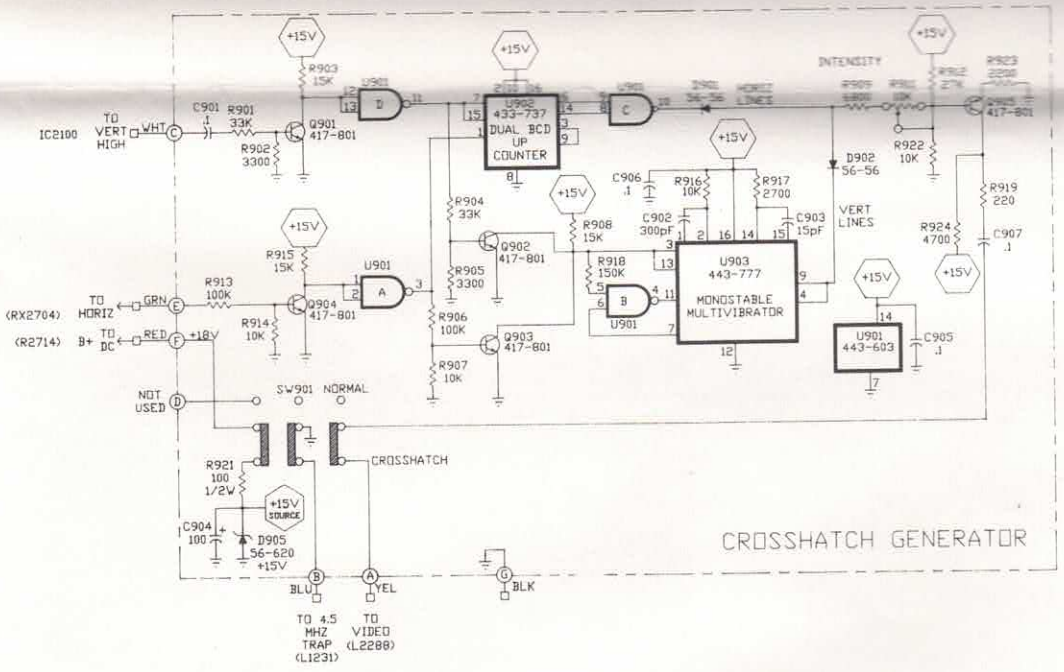



6K5
6K5 TO 4M6 TO 3K6
4M6
3K6

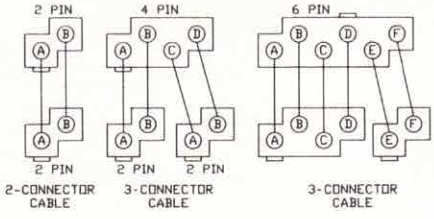

3S8/8S3


3U3/3U3
I.F. COAX AND ANTENNA INPUT CABLE

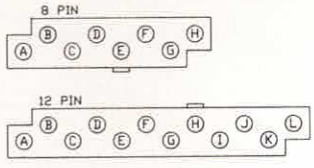

LOCATION OF LOCKING TAB TYPICAL
1 2 3 4
LOWEST NUMBERED PIN IS TO FAR LEFT OF THE LOCKING TA VIEWED FROM THE COMPONENT OF THE CIRCUIT BOARD
LOCATION OF LOCKING TAB TYPICAL
1 2
LOWEST NUMBERED PIN IS TO FAR LEFT OF THE LOCKING T VIEWED FROM THE COMPONENT OF THE CIRCUIT BOARD
KEY TABS

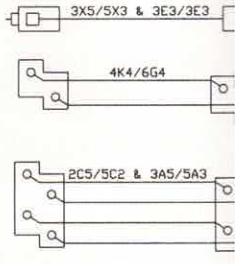


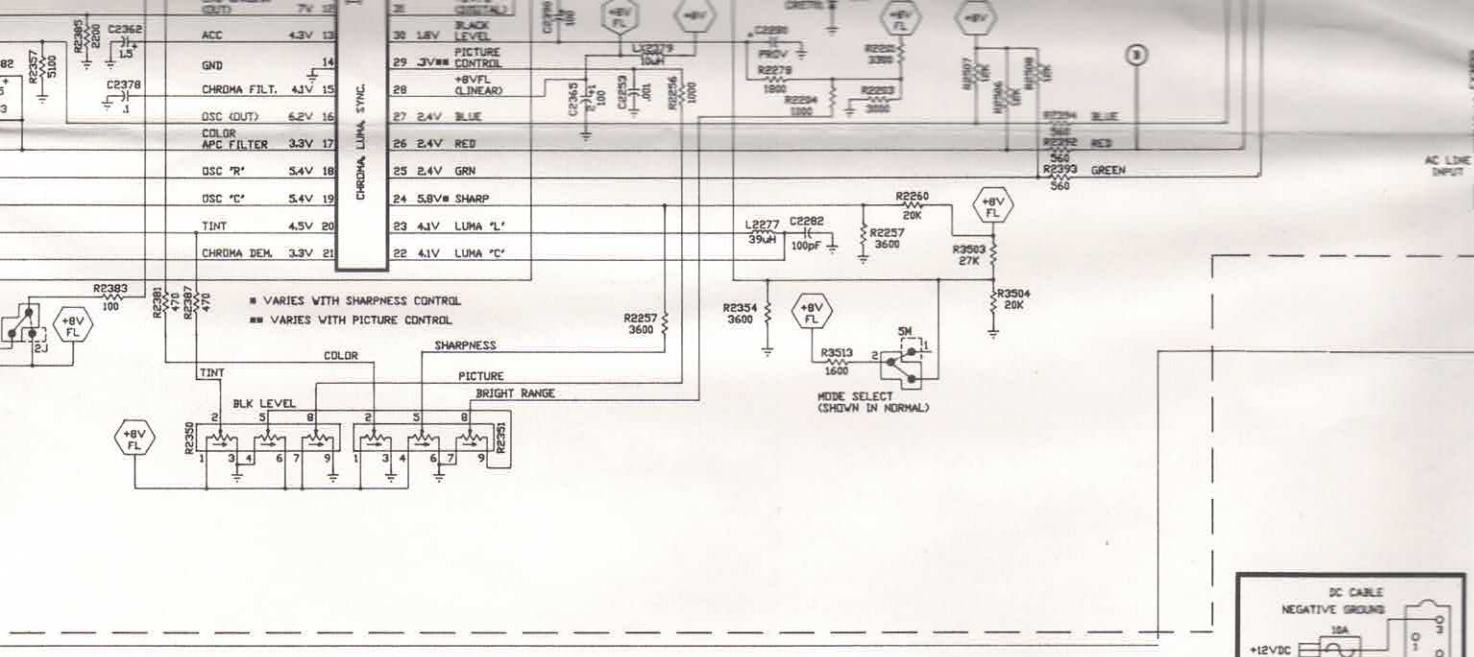
CABLE ASSEMBLY EXAMPLES AND PIN DESIGNATIONS

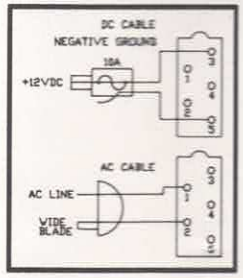


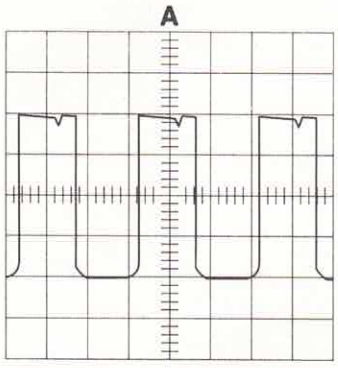
KEY LOCATIONS AND PIN DESIGNATIONS



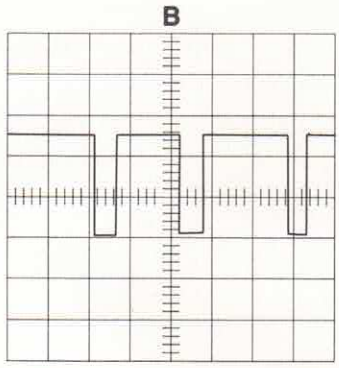




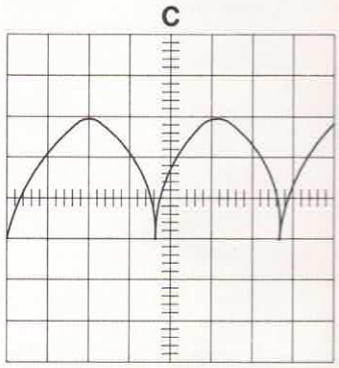




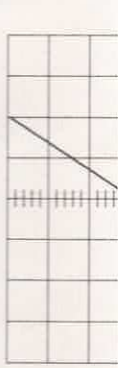
VERTICAL: 200 mv/cm | HORIZONTAL: 20us/cm
WAVEFORM–HORIZONTAL DRIVE



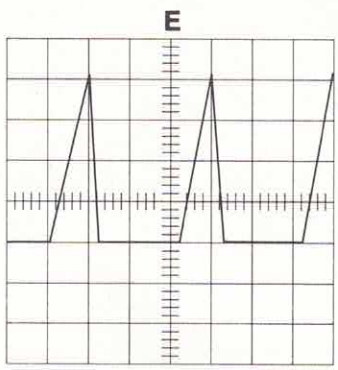
VERTICAL: 2V/cm | HORIZONTAL: 20us/cm
WAVEFORM–VIDEO DRIVE–RED



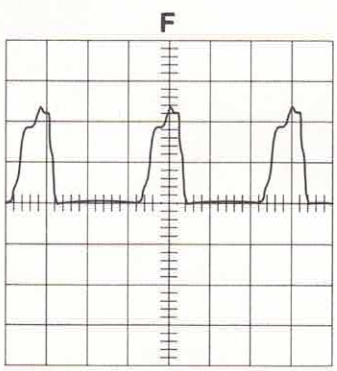
VERTICAL: 1V/cm | HORIZONTAL: 5ms/cm
WAVEFORM–VERTICAL LOW



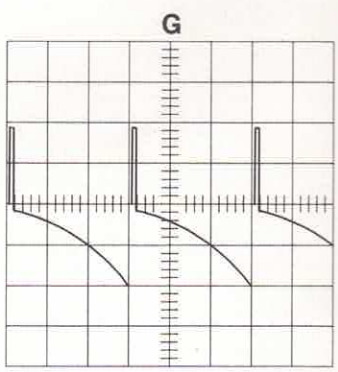
VERTICAL: 1V
WAVEF



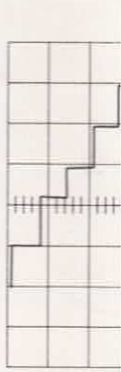
VERTICAL: 250V/cm | HORIZONTAL: 20us/cm
WAVEFORM–HORIZONTAL TO DEFLECTION YOKE



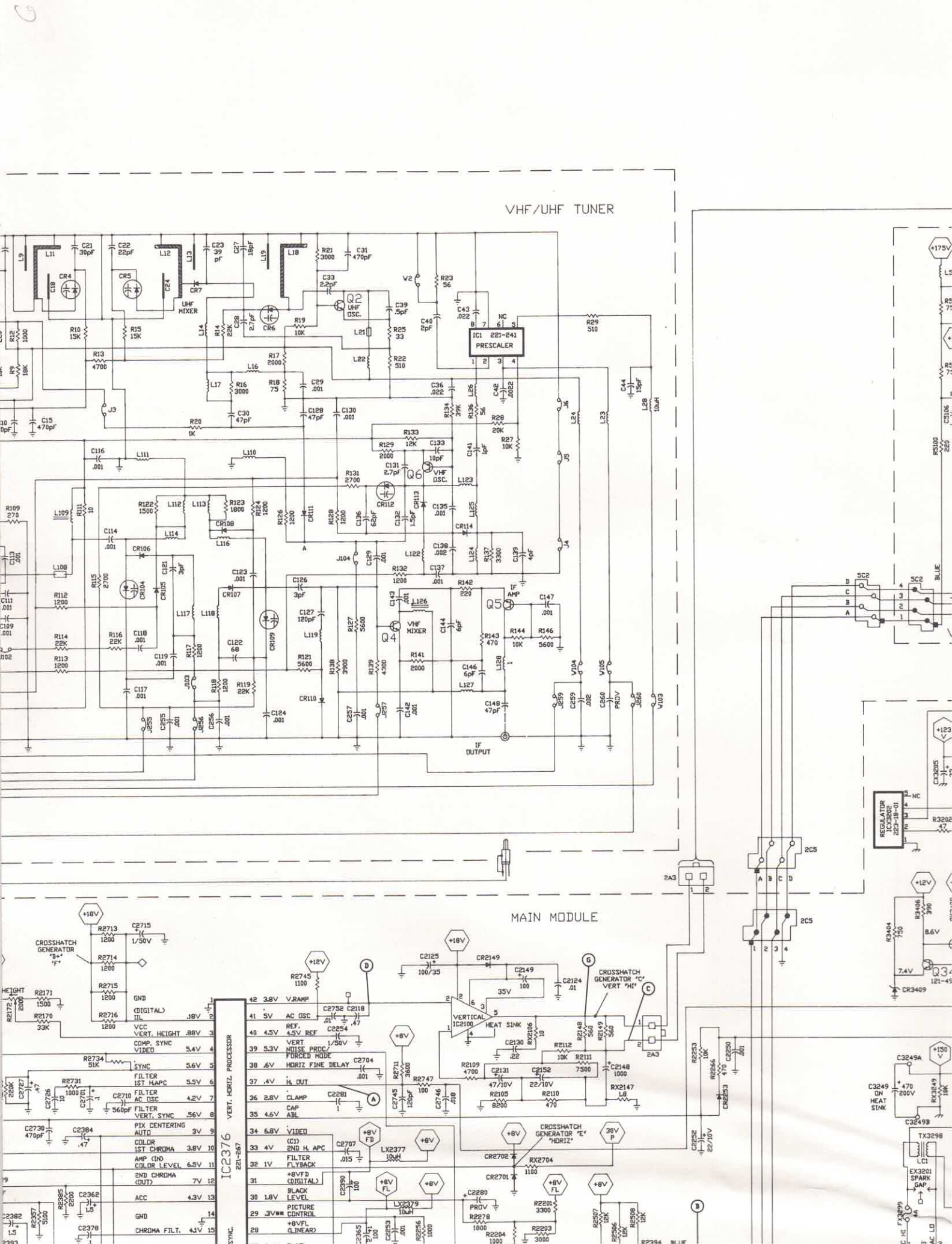
VERTICAL: 10V/cm | HORIZONTAL: 20us/cm
WAVEFORM–FLYBACK PULSE

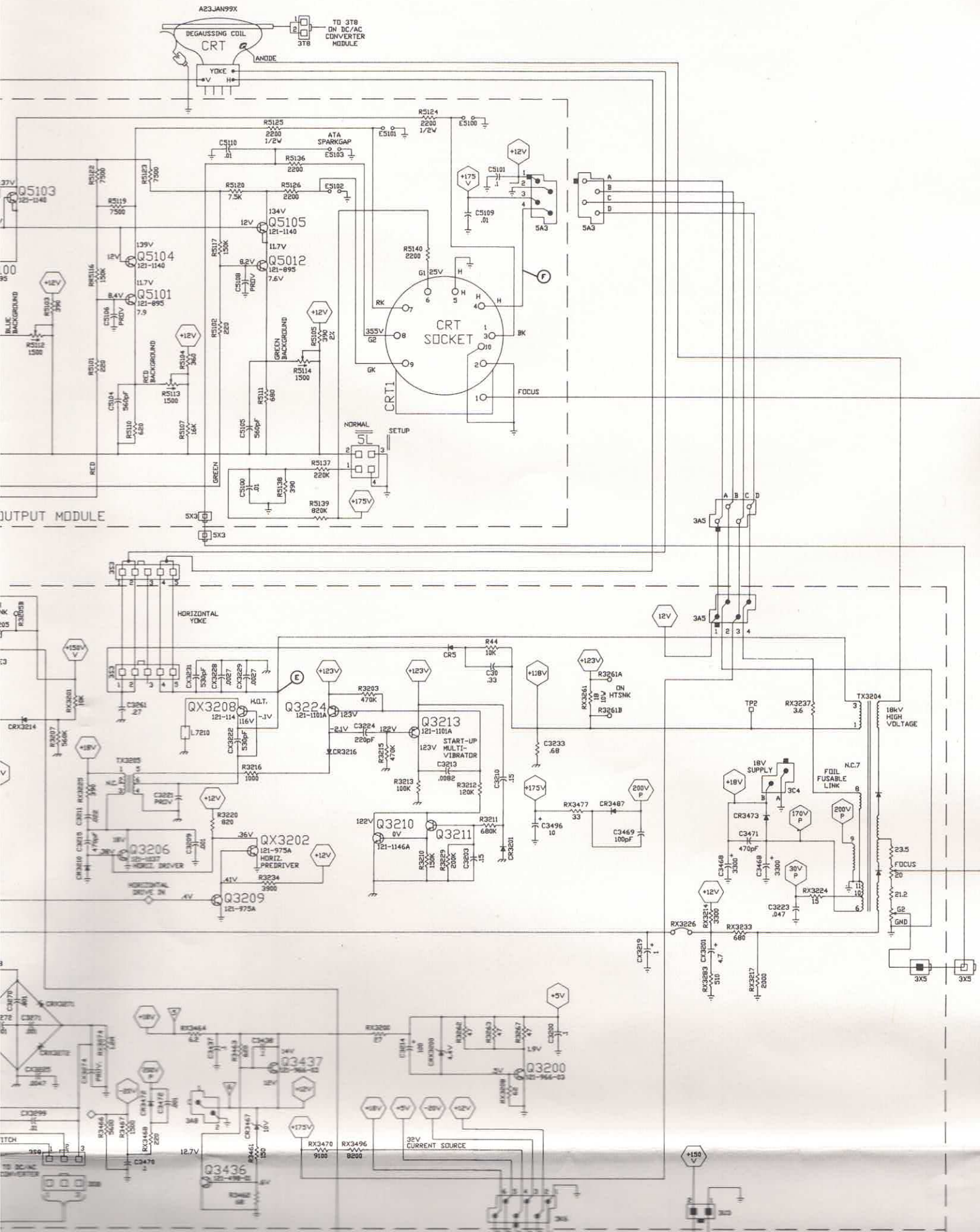


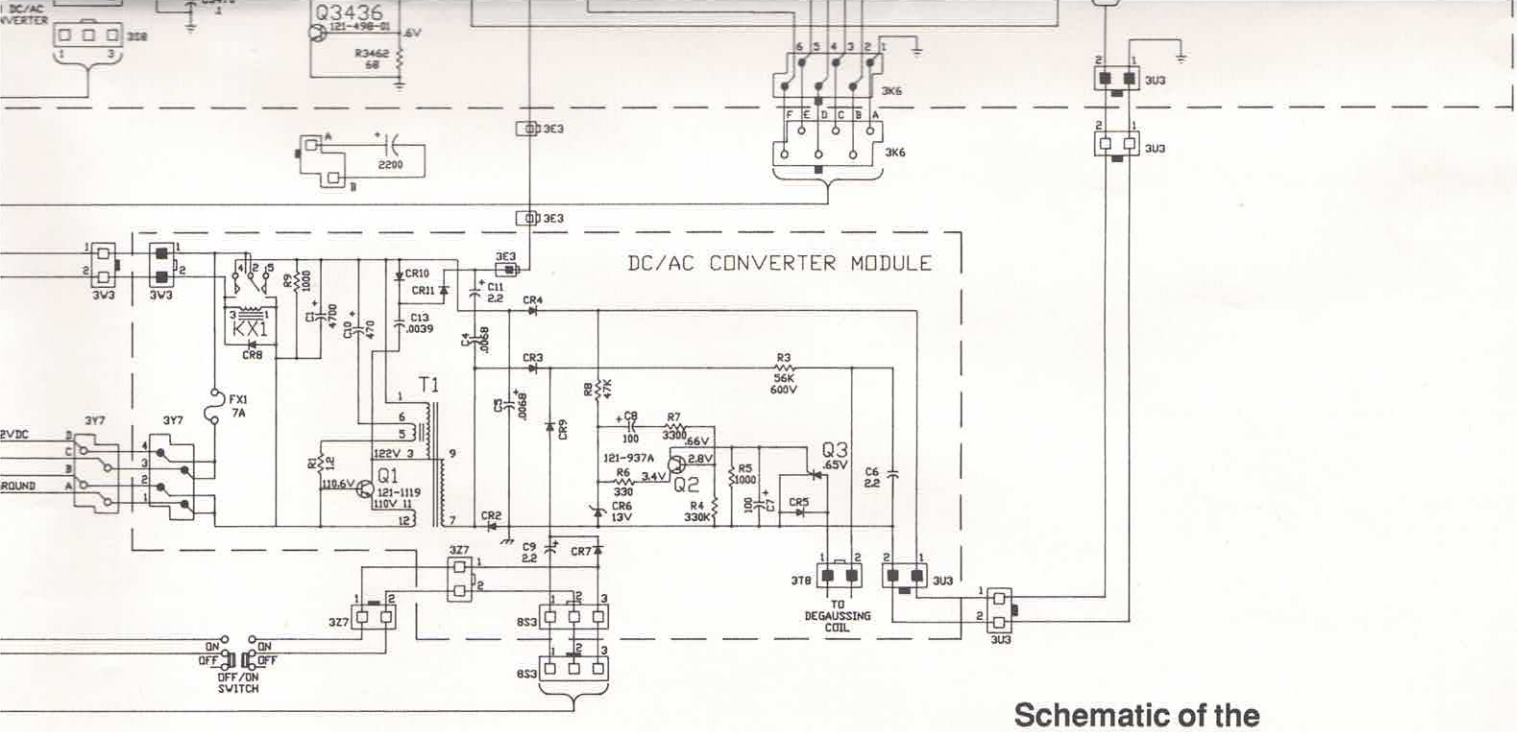
VERTICAL: 10V/cm | HORIZONTAL: 5ms/cm
WAVEFORM–VERTICAL HIGH



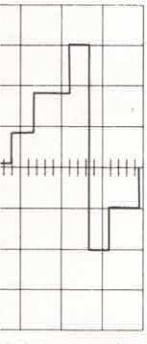
VERTICAL: .5V
WAVEFORM


VHF/UHF TUNER
MAIN MODULE
IC2376
VERT. HORIZ PROCESSOR
221-267
IC1 221-241
PRESCALER
UHF MIXER
UHF OSC.
VHF OSC.
VHF MIXER
IF AMP
IF OUTPUT
VERTICAL IC2100
HEAT SINK
REGULATOR IC3202 223-19-01
CROSSHATCH GENERATOR "B+" "F"
CROSSHATCH GENERATOR "C" VERT "HI"
CROSSHATCH GENERATOR "E" "HORIZ"
BLUE
SPARK GAP
TX3298
LC1
+175V
+18V
+12V
+8V
30V P
8.6V
7.4V


A23JAN99X
DEGAUSSING COIL
CRT
ANODE
YOKE
TO 3T8 ON DC/AC CONVERTER MODULE
3T8
ATA SPARKGAP
CRT SOCKET
CRT1
Q5103
Q5104
Q5105
Q5012
Q5101
Q3224
Q3213
Q3210
Q3211
Q3206
Q3209
Q3437
Q3436
Q3200
QX3208
QX3202
HORIZONTAL YOKE
OUTPUT MODULE
START-UP MULTI-VIBRATOR
HORIZ. DRIVER
HORIZ. PREDRIVER
18V SUPPLY
FOIL FUSABLE LINK
18kV HIGH VOLTAGE
FOCUS
G2
GND
CURRENT SOURCE
NORMAL
SETUP
RED BACKGROUND
GREEN BACKGROUND
BLUE BACKGROUND



ORIZONTAL: 5ms/cm
ICAL RAMP



ORIZONTAL: 10us/cm
UT-STAIRCASE

Schematic of the Heathkit ® 9" PORTABLE COLOR TV SET Model GR-9009

NOTES:

1. Resistor values are in ohms (k =1000; M = 1,000,000). The power rating (in watts) and tolerance (in %) for all resistors are given in the "Replacement Parts List."

2. Capacitor values less than 1 are in µF (microfarads). Values greater than 1 are in pF (picofarads) unless otherwise noted.

3. Indicates AC ground.

4. Indicates DC ground.

5. Indicates a DC voltage source.

6. This symbol indicates that this point is connected to a DC voltage source.

7. This symbol with a letter indicates a waveform at a pinout address.

8. ■ This symbol indicates the circuit board index key for a cable socket.

9. IMPORTANT SAFETY NOTE: The components whose circuit component numbers include the letter "X" are critical for safety. Be sure to replace any of these parts by specifying the appropriate part number listed in the "Replacement Parts List" section of this Manual.

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